

Newsletter

THE SOURCE

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The Source

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THE SOURCE

OFFICE OF SPONSORED PROGRAMS

Volume 4, Issue 2

June 2017

SWOSU Senior Wins Grand Prize at Research Day at the Capitol



Newcastle senior Madison Duckwall selected by Southwestern Oklahoma State University as its nominee for the 2017 Research Day at the Capitol won the overall grand prize.

Duckwall, a Pharmacy major, presented her research at the Waterford Hotel on March 27, 2017, titled *“Real World Synthetic Biology: Production of arsenic biosensors and aspirin producing bacteria.”* Madison was among 25 undergraduate students representing 19 Oklahoma colleges and universities who represented competitive research posters. Madison is very passionate about research. “Research has opened my eyes and mind to the fact that the world will always be full of possibilities and new ideas. It has shown me that the smallest action can have tremendous outcomes and that the only way to satisfy one’s curiosity is to give research a try,” Madison stated.

Duckwall’s advisor is Dr. Lori Gwyn, assistant professor in the chemistry and physics department. “Madison is an enthusiastic and accomplished researcher. Her dedication and work ethic are evidenced by the fact that she has already presented her own research at two national American Chemical Society conferences within the three years she has been a research student at SWOSU. Her current project was inspired by her interest in helping others and what she can do as a future pharmacist to make the production of certain medications more cost effective and less dangerous so the people that need them will have access to them. She will be an amazing representative of SWOSU and I have no doubt that she will make us all proud. We appreciate the support from the Department of Chemistry and Physics, the College of Arts and Sciences, the

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Office of Sponsored Programs, the Business Enterprise Center, and the National Science Foundation that have been made all of Madison's work possible," Dr. Gwyn stated.

For winning the grand prize, Madison won a \$500 cash award and \$4,000 summer internship. SWOSU received \$2,500 for supporting Duckwall's internship with faculty sponsor, Dr. Lori Gwyn.

Research Day at the Capitol is held annually during each legislative session. The event was created to inform the legislature and the public about the high-quality research being conducted at state colleges and universities.

Over 300 Faculty and Students Participate in Annual SWOSU Fair

More than 300 Southwestern Oklahoma State University student and faculty presented 169 research projects at SWOSU's 24th Annual Research and Scholarly Activity Fair held recently in the Pioneer Cellular Event Center on the Weatherford campus. This event gives students an opportunity to present their research and other scholarly activity in poster or podium presentation format. Many of the presentations have been or will be presented at various organizational events at the state, regional, and national levels.

High school students from El Reno Public Schools and Hobart High School also attended the fair. Seventeen students from the Western Technology Center Biomedical Academy in Burns Flat, sponsored by Biomedical instructor Danna Goss, also presented at the fair. Students from WTC that presented included Josh Boman, Brooklyn Fricks, Tori Gilreath, Maegyn Grubbs, Larissa Odon, Aldredo Posas, Brianna Rush, Savannah Walker, Darienne Bailey, Destiny Brown, Whitney Carter, AmberLea Greeson, Kristen Page, Leslie Sanchez, Candace Tipton, Hope Webb, and Josh Reed. As part of their attendance at the Fair, the high school student had the option to tour the Stafford Air and Space Museum and have lunch at Duke's Diner on campus.

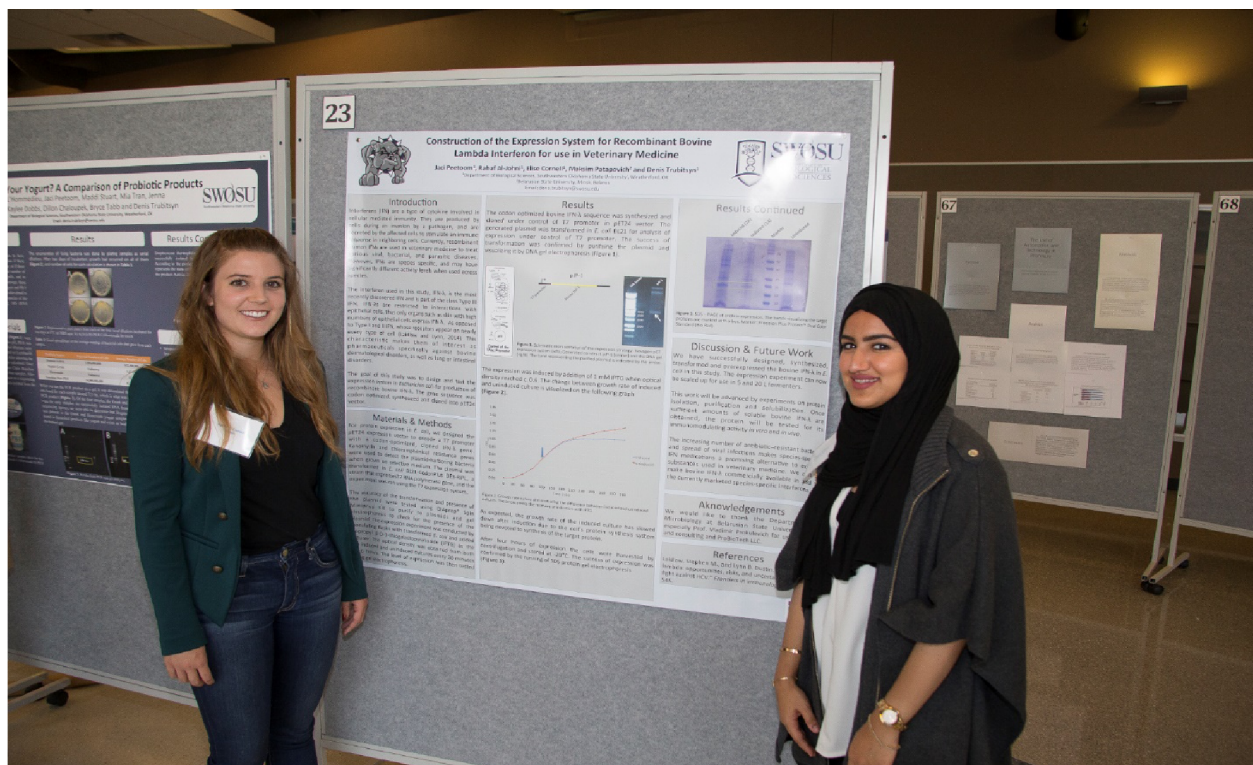
The Fair was sponsored by the University Research and Scholarly Activity Committee and the SWOSU Office of Sponsored Programs. The committee members include: Dr. Lisa Appeddu, chair; Dr. Becky Bruce; Dr. Rickey Cothran; Ed Klein; Dr. Denise Landrum-Geyer; Erin Ridgeway; Dr. Trisha Wald; Kim Zackary; and Dr. Yolanda Carr, director of the Office of Sponsored Programs. Also, students Gwen Burgess and Adriel Fillippini are on the committee.

SWOSU Faculty who participated with the poster and podium presentations, either as sponsors or as presenters included: Fred Alsberg, Dr. Lisa Appeddu, Dr. Jimena Arcena, Dr. Carlos Baldo, Dr. Dan Brown, Dr. Becky Bruce, Dr. Melinda Burgess, Mary Carrell, Dr. Lisa Castle, Dr. Jieun Chang, Dr. Yu-Ling Chen, Dr. Kevin Collins, Dr. Rickey Cothran, Barbara Danker, Dr. Trevor Ellis, Dr. Sylvia Esjornson, Dr. David Esjornson, Dr. Amanda Evert, Brad Fitzgerald, Dr. Ken Hayes, Dr. Jon Henrikson, Dr. David Hertz, Dr. Christopher Horton, Dr. Tim Hubin, Dr. William Kelly, Thanges Kesnan, Dr. Sunu Kodumthara, Dr. Sophia Lee, Dr. Doug Linder, Dr. Scott Long, Dr. Regine McGrane, Dr. Eric Paul, Dr. Siriporn Peters, Dr. Les Ramos, Dr. Hardeep Saluja, Dr. Tugba Sevin, Dr. Denis Trubitsyn, Dr. Kathy Wolff and Kristin Woods.

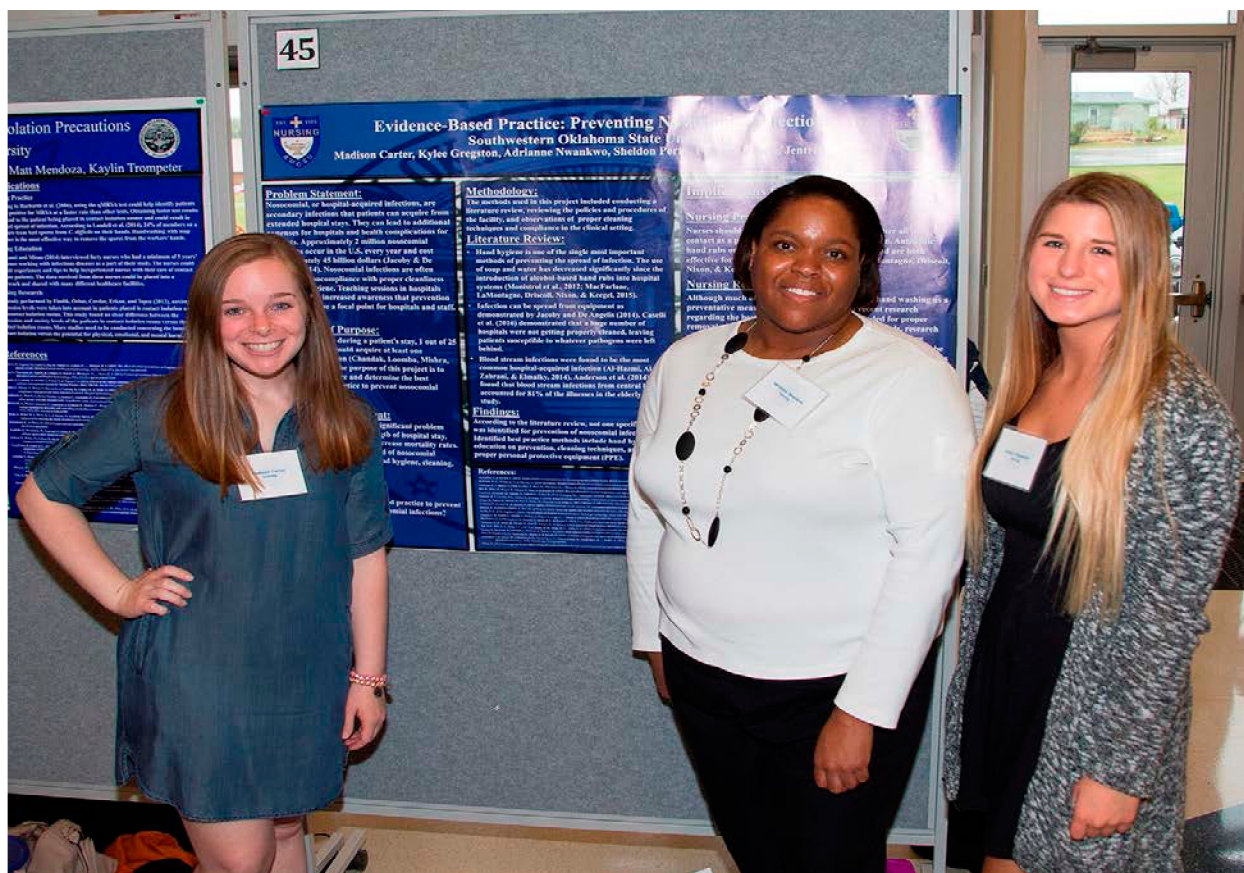
HIGHLIGHTS FROM THE SWOSU 24TH ANNUAL RESEARCH AND SCHOLARLY FAIR



Students Zanna Olamide Quadri and Omotoyosi Oyepero Banjo



Students Kathryn Cornell and Rahaf Al-Johani



Students Madison Carter, Adrienne Nwankwo, and Jentri Thompson



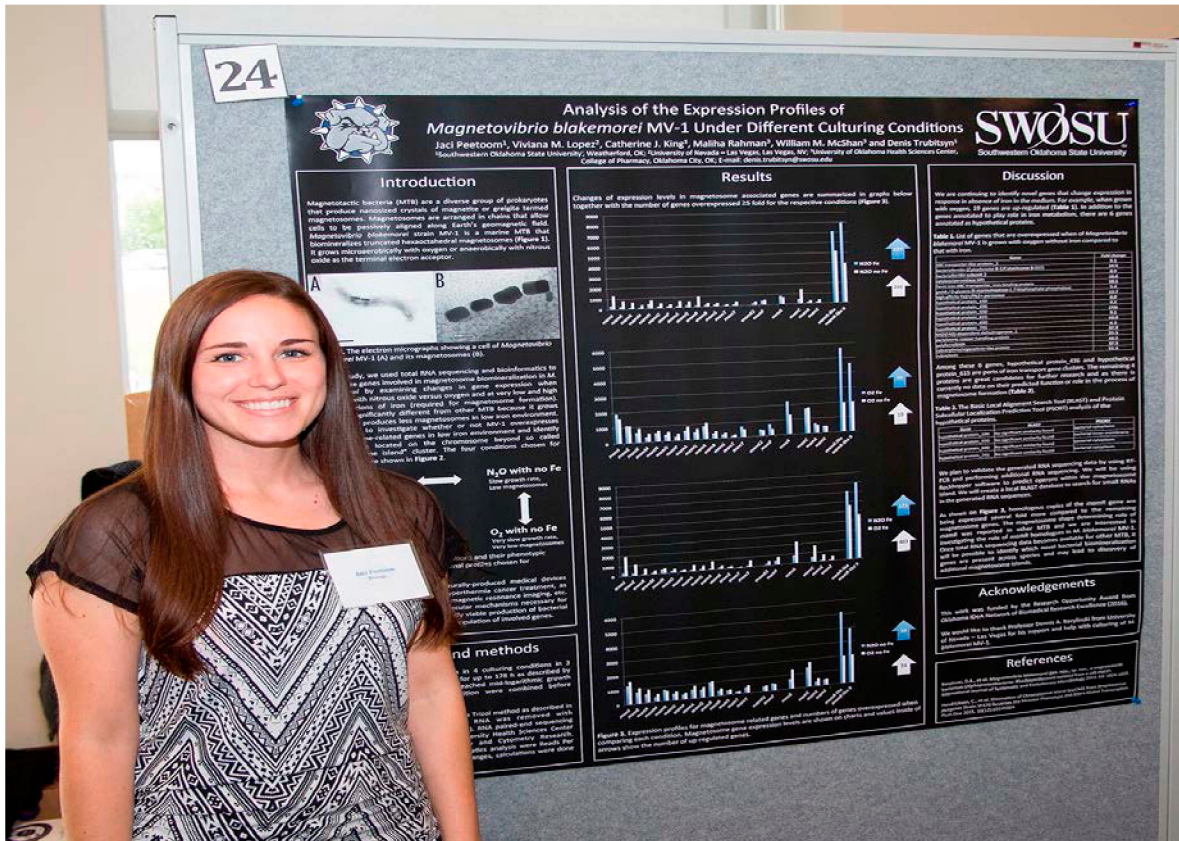
The URSAC Committee



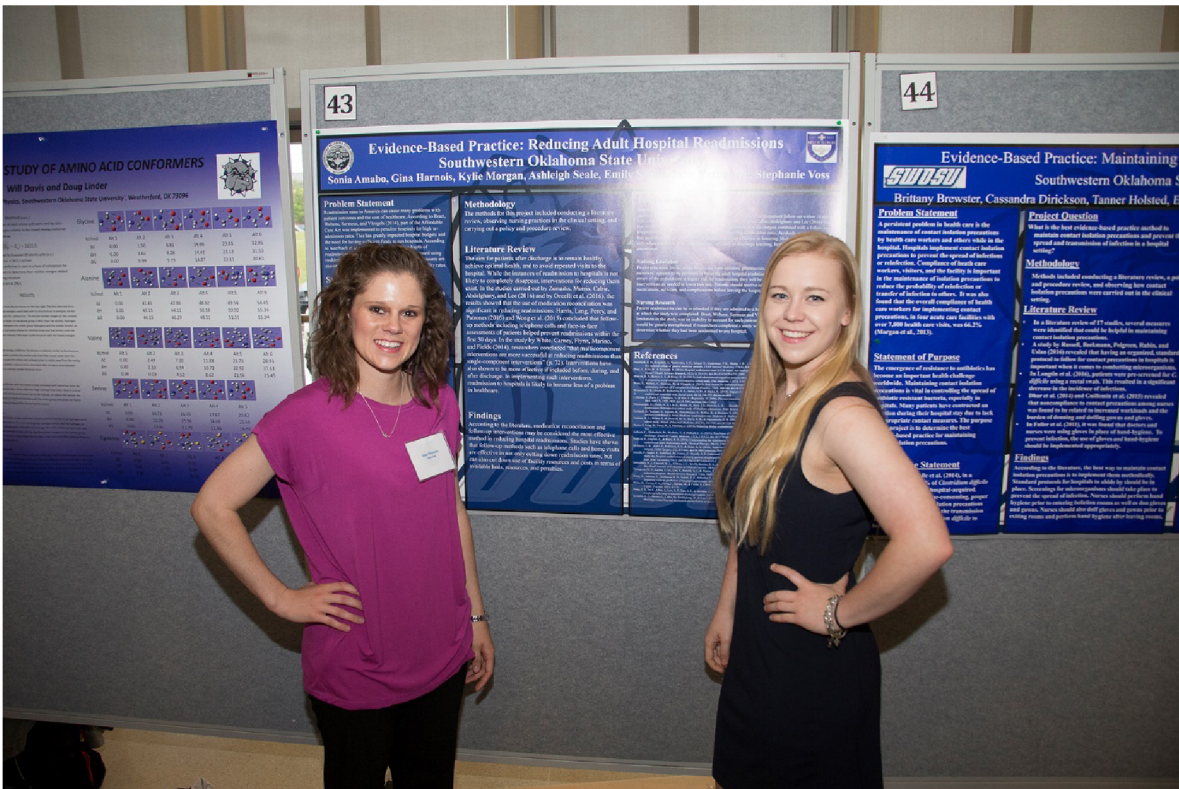
Student Mohammed Ihab Kamli



Students Su Hong-yu, Li Yi-syuan, and Chang Chai-yu



Student Jaci Peetoom



Students Gina Harnois and Stephanie Voss

Scholarly and Academic Activity

The Office of Sponsored Programs has been notified of the following Scholarly and Academic Activities since the last [newsletter](#):



Guy Biyogman, Mathematics, submitted an article, "Leibniz Homology of the Affine Indefinite Orthogonal Lie Algebra," to the African Diaspora Journal of Mathematics.



Philip Fitzsimmons, Al Harris Library, presented a paper, "Mystical Foundation of Owens Barfield's Work, Including the Evolution of Consciousness," at the 47th Annual Mythopoeic Conference in San Antonio, TX. He also presented a paper, "Making of an Inkling as Portrayed in English People," by Owen Barfield at the 20th Annual C. S. Lewis & Inklings Conference in Tulsa, OK. Mr. Fitzsimmons also recently wrote a double-book review on "The 'Great War' of Owen Barfield and C.S. Lewis: Philosophical Writings 1927-1930," and "Joy and Poetic Imagination: Understanding C.S. Lewis's 'Great War' with Owen Barfield and its significance for Lewis' Conversion and Writings" for *Mythlore*, the scholarly, peer-reviewed journal published by the Mythopoeic Society.



April Miller, McMahan Library, attended two Oklahoma Library Association Marketing Committee meetings, served as an editorial board member of an online publication and redesign of *Oklahoma Librarian*. Ms. Miller attended two Grey House, Salem Press & H. W. Wilson Editorial Advisory Board meetings in Orlando, FL. She also attended an Oklahoma Library Association Universities and Colleges Division meeting and an Oklahoma Library Association Supervisors, Managers and Administrators Roundtable.



Dennis Thompson, Pharmaceutical Sciences, submitted an article, "Nebulized Fentanyl in Acute Pain: A Systematic Review," to the *Annals of Pharmacotherapy* and reviewed an article, "Worldwide research productivity about insulin glargine: A bibliometric analysis (1999-2013)," for *Biomed Central Research Notes*. Dr. Thompson recently served as a reviewer for a number of articles for the AACP Annual Meeting Abstracts 2017:

- "Improving pharmacy students metacognition through formative feedback on exam performance";
- "Knowledge, Attitudes and Practice of Student Pharmacists towards Public Health with Namibia, Zambia, and Zimbabwe";
- "Knowledge, perceptions and attitudes of pharmacy students with an elective global health course"; and
- "Longitudinal Assessment of Clinical Documentation Skills in an Accelerated Doctor of Pharmacy Curriculum."

Dr. Thompson also served as a reviewer of the article, "Aripiprazole improves psychotic, cognitive, and motor symptoms in a patient with Lewy body dementia," for the *Journal of Clinical Psychopharmacology*. He also served as a reviewer for the *European Journal of*

Scholarly and Academic Activity (continued)

Neurology for the article titled, “The Efficacy of soffof-e banafshe in Prevention of Migraine Attacks: A Randomized, Double Blinded, Placebo-Controlled Clinical Trial” in Weatherford, OK.



Hardeep Saluja, Pharmaceutical Sciences, reviewed an article, “Student success may depend more on nurture than nature,” for the *American Journal of Pharmaceutical Education*. Dr. Saluja held a session chair for the American Association of Indian Pharmaceutical Sciences. He also served as an external evaluator for faculty being considered for promotion to Associate Professor with tenure. Dr. Saluja recently published an article, “Prophylaxis of Migraine Headaches with Riboflavin: A Systematic Review,” for the *Journal of Clinical Pharmacy and Therapeutics* in Weatherford, Oklahoma.



Peter Grant, College of Arts and Sciences, reviewed articles for *Zoosymposia* and published an article, “A Simple Inexpensive Artificial Stream for Rearing Ephemeroptera from Sandy Substances.”



Mapopa Sanga, Center for the Excellence for Teaching and Learning, presented a paper at the Association for Education Communication and Technology titled, “Designing for Quality: An analysis of design and pedagogical issues in online course.”



Denise Landrum-Geyer, Language and Literature, presented a paper, “I’d like to move, I think: Suggesting movement in an immobile geography,” at the Thomas R. Watson Conference on Rhetoric and Composition in Louisville, KY.



Frederic Murray, Al Harris Library, published an article, “2017 Intellectual Freedom Blogger American Library Association,” to the ALA Office for Intellectual Freedom, Chicago, IL. He also held a workshop presentation, “Archive in Action: What kind of animal is it?” at the OK-ACRL Conference 2016. He also submitted a number of articles to The Office for Intellectual Freedom Blog of the American Library Association:

“Censure & Erasure: The Strange Case of Hans Fallada”; “News Literacy in the Library Classroom”; “Neither App nor Algorithm”; The Oklahoma Science Education Act: v.7.0”; “Data Disagreement: Make it Disappear”; and “Rowing in the Vortex: the Endurance of George Orwell.”



Cheri Walker, Pharmacy Practice, recently served as a peer reviewer for the article, “Patient preferences for venous thromboembolism prophylaxis after injury: A discrete choice experiment,” for the BMJ Open in Oklahoma City, Oklahoma. Dr. Walker also served as a peer reviewer for AOP-17-0143 and AOP-17-0072. She also recently served as a peer reviewer of the article, “Melatonergic drugs for prevention of

Scholarly and Academic Activity (continued)

postoperative delirium: A meta-analysis of randomized controlled trials”; “Use of an order set to improve care and safety surrounding continuous neuromuscular blockade”; and “Patient Preferences for Venous Thromboembolism Prophylaxis after Injury: A Discrete Choice Experiment” for the BMJ Open in Oklahoma City, Oklahoma.



Barry Gales, Pharmacy Practice, recently published his journal article, “Nebivolol versus other beta blockers in patients with hypertension and erectile dysfunction,” in *Therapeutic Advances in Urology* in Oklahoma City, Oklahoma. Dr. Gales also served as a guest speaker on “Clinical Pharmacogenomics” for the Oklahoma Society of Health-System Pharmacists Annual Meeting, and for the Integris Baptist Medical Center on the topic of “Basic Statistics Review” in Oklahoma City, Oklahoma.



Fred Gates, Social Sciences, recently served as a judge of “Understanding History Using Economics” and “An Extraordinary Transition: The Repercussions of the Nixon Administration” for the Phi Alpha Theta Regional Conference in Weatherford, OK. Dr. Gates also served as a judge of Individual/Group Documentaries for the District History Day. He also served as Session Chair for the session titled, “Banking in Oklahoma,” for the 42nd Annual Business and Economic History Society Conference in Oklahoma City, Oklahoma.



Dan Brown, Social Sciences, presented his poster, “Compulsory DNA Testing-Pursuit of Justice or an Injustice,” at the 24th Annual SWOSU Research and Scholarly Activity Fair in Weatherford, OK.



Jieun Chang, Social Sciences, submitted her poster, “Internet use and energy assistance,” at the 24th Annual SWOSU Research and Scholarly Activity Fair in Weatherford, OK. Dr. Chang also recently published her article, “Estimating Willingness to Pay for Online Health Services with Discrete-Choice Experiments,” to the *Applied Health Economics and Health Policy Journal* in Bethesda, Maryland.



Jason Dupree, Al Harris Library, served on the Plenary Panel, “State of the State: an Oklahoma Libraries Panel, at the Coalition for Advancing Research and Education Conference (CADRE) in Stillwater, Oklahoma. Mr. Dupree also was asked to be a guest juror to judge the Visual Arts Juried Exhibition in Weatherford, Oklahoma.



Carlos Baldo, Business and Computer Science, recently presented a presentation titled, “Cultural Differences in a Worldwide Company, at the Bar-S training in Weatherford, OK. Dr. Baldo recently served as a presenter for the International Students and Plagiarism Workshop in Weatherford, OK. He also served as a Competition Judge for

Scholarly and Academic Activity (continued)

the School of Business and Technology Leaders of Tomorrow Showcase in Weatherford, Oklahoma. He also reviewed posters for the Southwest Academy of Management in Little Rock, Arkansas. While in at the Southwest Academy of Management, Dr. Baldo presented a paper titled, "Information Sharing: Contract Form and Employability Status: Explanations for Informational Asymmetries between Headhunter and Candidate." Dr. Baldo also recently published an article, "Attitudes toward women's career advancement in Latin America: The moderating impact of perceived company international proactiveness," in the *Journal of International Business* in Lansing, Michigan.

Richard Tirk, Music, recently served as a judge at the "Tri State Music Festival," in Oklahoma City, Oklahoma.



Jared Edwards, Psychology, recently submitted presented information about white privilege and systematic racism: "Message vs. Messenger," at the Southwestern Psychological Association Annual Meeting in Dallas, Texas.



Fred Alsberg, Language and Literature, recently performed, "Excavating the Dark," for the National Popular Culture Association Conference in San Diego, California.



Neal Xiong, Business and Computer Science, recently presented his paper, "A New Cellular Architecture for Information Retrieval from Sensor Networks through Embedded Service and Security Protocols," for the journal, *Sensors*, in Weatherford, Oklahoma.



Dorie Astle, Social Sciences, recently served as an instructor for the Cuban Law Study Abroad, sponsored by the NSU and OBA Criminal Law Section in Havana, Cuba.

Holly McKee, Business and Computer Science, recently served as a reviewer at the Transformative Learning Conference in Oklahoma City, Oklahoma. Ms. McKee also presented a paper titled, "An Instructor Learning Analytics Implementation Model," at the Online Learning Consortium Accelerate Conference in Orlando, Florida, and at the Transformative Learning Conference in Oklahoma City, Oklahoma.



Scholarly and Academic Activity (continued)



Randall Sharp, Pharmacy Practice, recently published an article titled, “Nebivolol Versus Other Beta Blockers in Patients with Hypertension and Erectile Dysfunction,” in *Therapeutic Advances in Urology* in Oklahoma City, Oklahoma. Dr. Sharp also recently served as a reviewer of the article, “Tako-Tsubo Syndrome in a Patient with Significant Coronary Artery Disease after Single-Chamber Pacemaker Implantation,” for the *Journal of Heart and Circulation*; and “Papastergiou J, Tolios P, Li W, et al. Innovative Canadian Pharmacogenomic Screening Initiative in Community Pharmacy (ICANPIC) Study,” for the *Journal of the American Pharmaceutical Association* in Oklahoma City, Oklahoma. He was also honored by the Oklahoma Society of Health System Pharmacists for serving in the Office of Immediate Past President of the Oklahoma Society of Health System Pharmacists (OSHP) for 2016-2017 in Oklahoma City.

Edna Patatanian, Pharmacy Practice, recently served as a reviewer for a number of articles for the AACP Annual Meeting Abstracts 2017 in Oklahoma City, Oklahoma:



“Multi-Modal Approach to Teaching Cultural Competency”;

“Medicinal cannabis in pharmacy education: time for a curricular change or just reefer madness?”

“Perceived stress, stressors and coping mechanisms among pharmacy residents” ;

and “Peer in Instructor feedback in preparation for end-of-semester performance-based testing”

SCHOLARLY AND ACADEMIC ACTIVITY

Faculty are encouraged to report work, such as publications, speeches, honors, conference participation or facilitation, appointments, reviews, exhibitions, poster presentations, and other such activities. The annual scholarly and academic activity report is distributed to university and state officials and acts as an archive of such activities at SWOSU. The Office of Sponsored Programs also forwards submissions to the SWOSU Libraries digital repository. Information pertaining to the author's activity will not be placed in the library's digital repository without the consent of the author. The report form is available at <http://www.swosu.edu/administration/osp/scholarly-activity-report.aspx>.

Grants, Contracts, and Proposals

Proposals



Hubin, Tim. Department of Chemistry and Physics:

Early Stage (CXCR7) and Translation Stage (CXCR4) Chemokine Receptor Antagonists for Cancer Imaging and Therapy. National Institutes of Health. \$394,464.

INBRE Summer Student. OK-INBRE. \$2,200.

Grants, Contracts, and Proposals (continued)

Early Stage (CXCR7) and Translation Stage (CXCR4) Chemokine Receptor Antagonists for Cancer Imaging and Therapy. National Institutes of Health. \$394,464.

NSF Supplemental to OK-LSAMP for Student Research in Hull. National Science Foundation. \$29,500.

Pentaazamacrocyclic Chemokine Receptor Antagonists. OK-INBRE Mini-Grant. National Institutes of Health. \$34,133.

Developing Chemokine Receptor Antagonists into Pet Imaging/Cancer Therapy Agents. Burroughs Wellcome. \$10,000.

Developing Chemokine Receptor Antagonists into Pet Imaging/Cancer Therapy Agents. OCAST. \$135,000.

Liposomal Delivery and Magnetic Retrieval of Advanced Oxidation Catalysts for Oil Spill Remediation. National Institutes of Health (EPSCoR ROA+). \$12,500.

CXCR4 Targeted Release of Anti-cancer Drugs from Heat Activated Liposomes. OK-INBRE Collaborative Grant. \$70,366.



Woods, John. Department of Mathematics. *KESAM Statewide Partnerships 2017.* Oklahoma State Regents of Higher Education. \$135,000.



Pate, Anne. College of Nursing and Allied Health Sciences. *Environment Exposures and Cancer in Chickasaw and Choctaw Nations of Oklahoma.* National Institutes of Health. \$12,676.



Bryant, Brad, (Department of Engineering Technology), Dr. Sophia Lee (Music), and Dr. Andrea Holgado (Biological Sciences). *Bridging the STEM Challenge – From Basic Research to New Products through Undergraduate Research Opportunities.* OCAST. \$60,000.



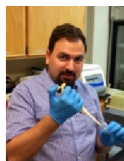
Horton, Christopher. Department of Biological Sciences:

Toll-like receptor agonists selectively upregulate co-receptor expression on antigen presenting cells. American Association of Immunologists. \$2,250.

Toll-like receptor agonists selectively upregulate co-receptor expression on antigen presenting cells. OK-INBRE. \$2,000.

Grants, Contracts, and Proposals (continued)

Pathway analysis of B7-H4 stimulated naïve T lymphocytes by RNA sequencing. OK-INBRE Research Opportunity Award. \$13,840.



Trubitsyn, Denis. Department of Biological Sciences. *Travel to participate and present at the ASM Conference for Undergraduate Educators.* OK-INBRE Travel Grant. \$2,000.



Holgado, Andrea. Department of Biological Sciences:

IOS RUI Investigating the role of UNC-33 in autophagy and its effects on axonal elongation (pre-proposal). National Science Foundation. Pre-Proposal.

Linking the neuronal role of UNC-33 to autophagy. OK-INBRE Summer Undergraduate Research Program. \$2,200.



Peters, Siriporn. Department of Art, Communication and Theatre. *Native American Arts Project.* Oklahoma Arts Council. \$3,225.



Linder, Doug. Department of Chemistry and Physics. *Understanding the Effects of Structure on the Adsorption, Bond Activation, and Electronic Properties of First-Row Transition Metal Complexes of Cyclens Containing Mono- Di, and Tri-Methylene Cross-Bridges.* ACS: The American Chemical Society, Petroleum Research Fund. \$70,000.



Horrick, Sharma. Department of Pharmaceutical Sciences:

Discovery of Novel Lactate Dehydrogenase Inhibitors Against Pancreatic Cancer. OK-INBRE Mini-Grant. \$25,932.

Discovery of novel LDH-A inhibitors against Cancer. OK-INBRE. Summer Undergraduate Research Program. \$2,200.



Tirk, Richard. Department of Music. *48th Annual Jazz Festival.* Oklahoma Arts Council. \$8,000.



Grants, Contracts, and Proposals (continued)



Baugher, Madeline. Business and Computer Science:

NASA Oklahoma EPSCoR Research Implementation Grant (Sigmarsson). National Aeronautics and Space Administration. \$6,808.

NASA Oklahoma EPSCoR Research Implementation Grant (Refai). National Aeronautics and Space Administration. \$6,808.



McGrane, Regina. Department of Biological Sciences:

Evaluating bacterial sensory mechanisms associated with changes in surface characteristics. National Science Foundation. \$2. Pre-proposal.

Evaluating the effect of mechanical stress from cell-to-surface associated behaviors, perturbation in flagella rotation, and osmotic pressure on surface associated behaviors. \$2,200.

Evaluating the effect of mechanical stress from cell-to-surface contact, perturbation in flagella rotation, and osmotic pressure on surface associated behaviors. \$31,056.

OK-INBRE Travel Grant to Microbe 2017. OK-INBRE. \$2,000.



Appeddu, Lisa and Ramos, Les. Department of Pharmaceutical Sciences. Antioxidant and Antimicrobial Potential of the Oklahoma Sand Plum, *Prunus angustifolia* Marsh. OK-INBRE. \$2,200.



Ellis, Trevor. Department of Chemistry and Physics. *Synthesis of Chemical Signaling Gamma-butyrolactone (GBL) Based Signaling Molecule Analogues.* Summer Undergraduate Research Program (SURP). \$2,200.



Gwyn, Lori. Department of Chemistry and Physics. *Investigation of Cyclen/Cyclam Metal Complexes for the Construction of Artificial Nucleases.* OK-INBRE. \$31,972.

Awards



Baugher, Madeline. Business and Computer Science:

Oklahoma NASA EPSCoR – Research Infrastructure Grant. The Board of Regents of the University of Oklahoma. \$1,942

Grants, Contracts, and Proposals (continued)

Oklahoma NASA EPSCoR – FY13 Research Implementation Grant. National Aeronautics and Space Administration (NASA). \$5,784.

Radiation Smart Structures with H-rich Nanostructured Multifunctional Materials (Teeters – Year 2). National Aeronautics and Space Administration (NASA). \$1,885.

Oklahoma NASA EPSCoR Research Implementation Grant (Year 1). National Aeronautics and Space Administration (NASA). \$1,942.

Oklahoma NASA EPSCoR Research Infrastructure Grant (Year 2). National Aeronautics and Space Administration. \$1,942.

A Hybrid Photovoltaic Up/Downconversion and Biological System for Extended Space Flight (Hari) – Year 2. National Aeronautics and Space Administration. \$1,980.

Radiation Smart Structures with H-rich Nanostructural Multifunctional Materials (Vaidyanathan) (Year 2). National Aeronautics and Space Administration (NASA). \$1,979.

High Efficiency Flexible Dilute Nitrides Solar Cells for Space Applications. National Aeronautics and Space Administration (NASA). \$6,092.

Space Grant Opportunities in NASA STEM. National Aeronautics and Space Administration (NASA). \$28,462.



Henderson, Aimee. Department of Rural Health. *Health Disease and Stroke Prevention Program and Diabetes Prevention.* Centers for Disease Control and Prevention. \$193,410.



Grant, Marci. Center for Excellence in Teaching and Learning. *SWOSU USDA RUS Distance Learning and Telemedicine Program.* U. S. Department of Agriculture. \$485,498.



Hubin, Tim. Department of Chemistry and Physics. *Louis Stokes Alliance for Minority Participation in Science, Mathematics, Engineering and Technology (Year 3).* National Science Foundation. \$19,825.

Grants, Contracts, and Proposals (continued)



Pate, Anne. College of Nursing and Allied Health Sciences. *National Conference on Undergraduate Research: Association between residential proximity crops and adverse health outcomes in Oklahoma.* National Institutes of Health. \$2,200.



Holgado, Andrea. Department of Biological Sciences:

IOS RUI Examining Molecular Players Integrating Autophagy and Neuronal Development and Maintenance. National Science Foundation. \$600,000.

GCAT-SEEKquence Workshop. OK-INBRE. \$1,350.



Campbell, Brian and David Esjornson. Department of Chemistry and Physics. *2017 Summer Science and Mathematics Academy.* Oklahoma State Regents for Higher Education. \$42,850.



Horton, Christopher. Department of Biological Sciences:

Toll-like receptor agonists selectively upregulate co-receptor expression on antigen presenting cells. OK-INBRE. \$2,000.

2017 AAI Undergraduate Faculty Travel Award. American Association of Immunologists. \$2,250.



Ubeidat, Muatasem. Department of Biological Sciences. *2017 Carryforward Equipment Grant.* National Institutes of General Medical Sciences (NIH). \$25,000.

Upcoming Events

8th Annual Promoting Undergraduate Research Conference – September 29, 2017

Location: Presbyterian Health Foundation Conference Center at 655 Research Parkway, Oklahoma City, OK.

Cost: \$50 for Faculty and \$75 for Administrators

Research Day at the Capitol – March, 2018 (Faculty nominate students)

Oklahoma Women in Higher Education – TBA

Oklahoma Research Day – Friday, March 9,
2018

Location: Central National Bank Center – Enid,
OK

SWOSU 25th Annual Student Research and
Scholarly Activity Fair – April, 2018

Location: Pioneer Cellular Event Center

National Conference on Undergraduate Research
– April 4 – 7, 2018

Location: University of Central Oklahoma

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